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# Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE

Prepared by the

COMMUNICABLE DISEASE CENTER

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ATLANTA 22, GEORGIA

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON  
DEATHS IN SELECTED CITIES FOR WEEK ENDED AUGUST 11, 1962

**POLIOMYELITIS** - A total of 27 cases of poliomyelitis (21 paralytic) was reported in the nation for the week ending August 11. The decline from the 31 cases (24 paralytic) noted during the preceding week is extraordinary for the season. The comparable week in 1961 brought reports of 54 cases of poliomyelitis (36 paralytic).

Ten States accounted for the poliomyelitis reported this week. Texas, once again, submitted the largest number with 11 cases, including 7 paralytic. The paralytic cases in this State stemmed from six different counties with two from counties which have undertaken mass administration of oral polio-vaccine as an epidemic deterrent.

Of the remaining States, Michigan and Virginia each accounted for three cases. The Michigan cases represent delayed reports and originate from different counties. In Virginia, all three cases were from Washington County, with one from Bristol, Virginia, and two from the small town of Damascus. Further laboratory and epidemiologic studies are being performed in these cases.

The total number of reported cases of poliomyelitis thus far this year remains below the total for the similar period in any previous year. The number of paralytic cases, however, is the same as the number of paralytic cases in 1961. Cumulative totals through the 32nd week for 1962 and the previous four years is presented in the

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
(Cumulative totals include revised and delayed reports through previous week)

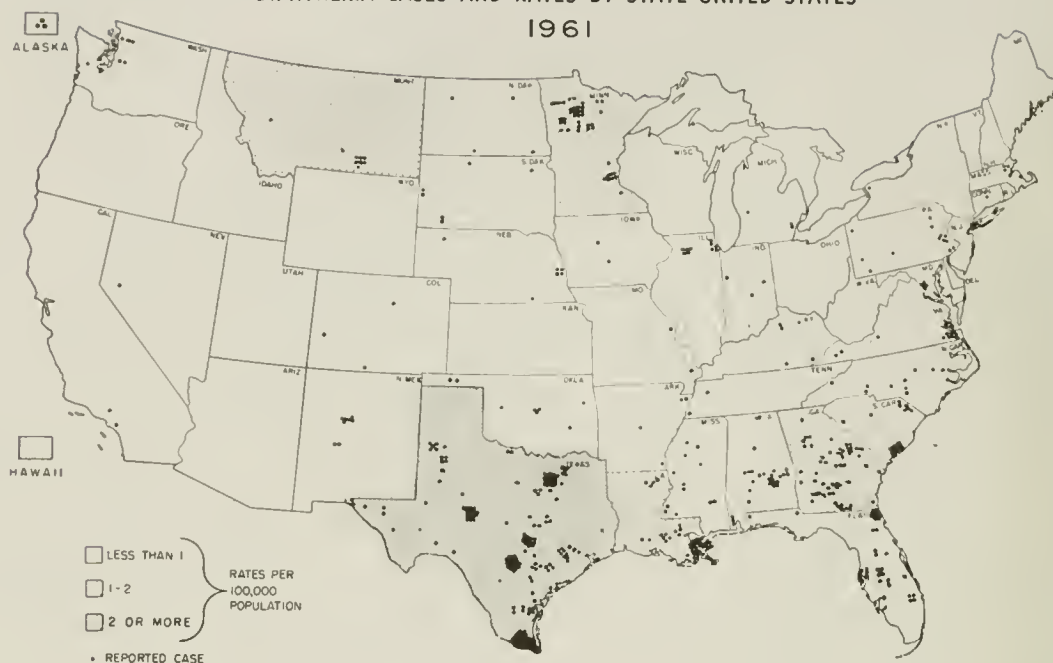
Disease	32nd Week			Cumulative		
	Ended	Ended	Median 1957 - 1961	First 32 weeks		Median 1957 - 1961
	August 11, 1962	August 12, 1961		1962	1961	
Aseptic meningitis.....	117	133	---	1,061	1,289	---
Brucellosis .....	7	10	10	257	378	502
Diphtheria .....	6	-	9	240	339	387
Encephalitis, infectious.....	40	46	58	976	962	999
Hepatitis, infectious and serum...	728	1,022	387	36,078	49,607	13,934
Measles .....	1,660	1,746	1,886	437,864	382,274	390,448
Meningococcal infections .....	34	29	30	1,418	1,414	1,537
Poliomyelitis, total.....	27	51	199	357	413	1,409
Paralytic .....	21	35	90	274	274	668
Nonparalytic.....	6	14	83	57	92	512
Unspecified.....	-	2	26	26	47	229
Streptococcal sore throat and Scarlet fever .....	3,423	3,193	---	217,225	225,336	---
Tetanus .....	9	---	---	148	---	---
Tularemia .....	7	---	---	184	---	---
Typhoid fever.....	19	15	29	330	421	461
Typhus fever, tick-borne, (Rocky Mountain spotted).....	17	---	---	152	---	---
Rabies in Animals .....	60	60	71	2,597	2,222	2,449

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

Anthrax:  
Botulism:  
Malaria: Va. - 1  
Plague:

Psittacosis:  
Rabies in Man:  
Smallpox:  
Typhus, murine: Ga. - 2

Figure I  
DIPHTHERIA CASES AND RATES BY STATE-UNITED STATES  
1961



tabulation shown below:

**Polio (Cumulated Weekly) Through the 32nd Week (1958-1962)**

	1962	1961	1960	1959	1958
Paralytic	274	274	777	1892	716
Total	357	413	1074	2924	1457

**HEPATITIS** – The total of 728 reported cases of viral hepatitis for the current week continues the recent trend toward the low of 601 reached in the week ending July 6. No significant increase occurred in any of the States.

**DIPHTHERIA – UNITED STATES, 1961**

Individual case reports have been received at the Diphtheria Surveillance Unit, Communicable Disease Center, on 582 cases of diphtheria with onset of illness in 1961. Sixty of these cases were fatal. While the number of cases in 1961 is one-third below the 1960 total of 873, the 60 deaths reported in 1961 show little change from the 67 deaths in 1960.

There were no large-scale outbreaks of diphtheria in 1961. As in previous years, the diphtheria cases occurred predominantly during the fall and early winter. Three-fourths of the cases occurred in the Southern States with almost one-third of all cases from Texas alone. In the Northern States, north central Minnesota continues to demonstrate an endemic concentration of cases. The accompanying map (Figure I) shows the distribution of

diphtheria cases by State for those cases with onsets in 1961.

Attack rates for the non-white population in the United States were four times higher than in the white population. Nearly one-third (32.5 percent) of all diphtheria cases occurred in children under five years of age. No significant differences were found in distribution of cases by sex. The age distribution of cases and age specific attack rates are shown in Table I and Figure II.

TABLE I – DIPHTHERIA MORBIDITY BY RACE AND AGE – 1961

Age Group	White	Non-White
0 - 4	103	86
5 - 9	106	58
10 - 14	59	39
15 - 19	23	10
20 - 29	28	9
30 +	46	9
Unknown	2	1
Totals	367	212

Three-fourths of the diphtheria cases had received no diphtheria immunizations. All but one of the deaths were in individuals who were inadequately immunized or had not been immunized. The one exception was a 1-year-old boy who died of diphtheria three months after completing a primary series; however, this boy had severe measles along with diphtheria. The immunization status and severity of illness for 423 cases on which information is available are shown in Table II.

Figure II  
DIPHTHERIA ATTACK RATES  
by RACE and AGE GROUP  
1961

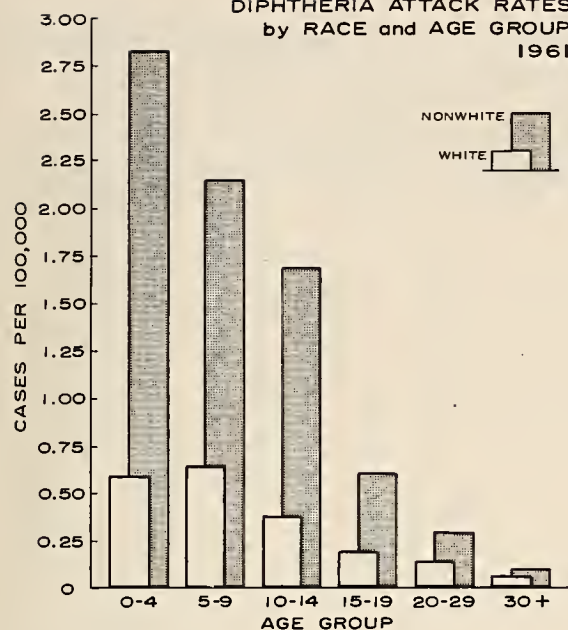


TABLE II - IMMUNIZATION STATUS

Severity of Illness	Full	Lapsed	Inadequate	None	Total
Mild	23	12	23	143	201
Moderate	10	17	11	76	114
Severe	6	4	3	40	53
Total	1	0	2	52	55
Total	40	33	39	311	423

Four hundred and sixty-six of the 582 cases were bacteriologically confirmed. One hundred and eighty-seven (40 percent) were typed by strain, as shown in Table III. Of the 301 strains tested for toxigenicity, 17 (6 percent) were non-toxigenic.

Table III - Type of Strain Isolated in 1961

Mitis	115
Gravis	47
Intermedius	11
Indeterminate	14
Total	187

### SUMMARY OF DEATHS AMONG PERSONS 65 YEARS AND OVER IN 108 U. S. CITIES

The weekly average number of deaths among persons 65 years and over in 108 cities for the four-week period ending August 11 was 5,716 as compared with an expected 5,795 weekly average.

	WEEK ENDING				4 Week Total	Weekly Average
	7/21	7/28	8/4	8/11		
Observed	5,847	5,705	5,610	5,701	22,863	5,716
Expected	5,822	5,799	5,783	5,775	23,179	5,795
Excess	25	-94	-173	-74	-316	-79

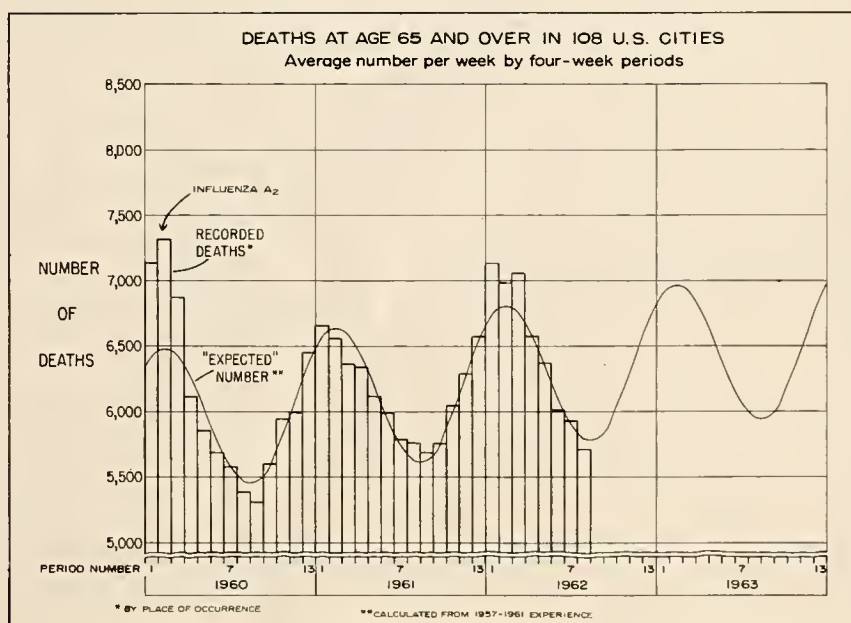


Table 3 CASES OF SPECIFIED NOTIFIABLE DISEASES. UNITED STATES  
FOR WEEKS ENDED  
AUGUST 12, 1961 AND AUGUST 11, 1962

Area	Poliomyelitis, Total Cases				Poliomyelitis, Paralytic				Poliomyelitis, Nonparalytic		Aseptic Meningitis	
	32nd week		Cumulative First 32 weeks		32nd week		Cumulative First 32 weeks		32nd week		32nd week	
	1962	1961	1962	1961	1962	1961	1962	1961	1962	1961	1962	1961
	1962	1961	1962	1961	1962	1961	1962	1961	1962	1961	1962	1961
UNITED STATES.....	27	51	357	413	21	35	274	274	6	14	117	133
NEW ENGLAND.....	-	1	6	5	-	1	6	5	-	-	2	22
Maine.....	-	-	-	-	-	-	-	-	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	1	-	-	-	1	-	-	-	-
Massachusetts.....	-	-	4	2	-	-	4	2	-	-	1	10
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	1	11
Connecticut.....	-	1	2	2	-	1	2	2	-	-	-	-
MIDDLE ATLANTIC.....	2	7	37	39	1	7	23	36	1	-	2	8
New York.....	2	6	36	18	1	6	22	16	1	-	2	6
New Jersey.....	-	1	1	15	-	1	1	14	-	-	-	-
Pennsylvania.....	-	-	-	6	-	-	-	6	-	-	-	2
EAST NORTH CENTRAL.....	5	7	31	39	5	3	21	22	-	3	9	24
Ohio.....	-	1	8	14	-	-	7	6	-	1	5	1
Indiana.....	1	-	5	4	1	-	4	3	-	-	1	1
Illinois.....	1	3	11	12	1	1	5	7	-	2	-	10
Michigan.....	3	1	5	4	3	1	5	4	-	-	3	12
Wisconsin.....	-	2	2	5	-	1	-	2	-	-	-	-
WEST NORTH CENTRAL.....	-	3	15	25	-	1	8	11	-	2	7	8
Minnesota.....	-	-	3	3	-	-	3	3	-	-	6	7
Iowa.....	-	2	5	5	-	1	2	2	-	1	1	-
Missouri.....	-	-	5	8	-	-	2	2	-	-	-	-
North Dakota.....	-	1	2	1	-	-	1	-	-	1	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	3	-	-	-	2	-	-	-	-
Kansas.....	-	-	-	5	-	-	-	2	-	-	-	1
SOUTH ATLANTIC.....	5	15	24	81	4	14	20	61	1	-	7	9
Delaware.....	-	-	-	2	-	-	-	1	-	-	-	-
Maryland.....	-	3	-	11	-	3	-	11	-	-	-	-
District of Columbia.....	-	-	1	1	-	-	-	1	-	-	-	1
Virginia.....	3	2	6	3	3	2	6	3	-	-	4	8
West Virginia.....	-	4	3	11	-	3	3	7	-	-	-	-
North Carolina.....	-	-	2	7	-	-	1	5	-	-	-	-
South Carolina.....	-	1	2	8	-	1	2	7	-	-	1	-
Georgia.....	2	3	4	22	1	3	3	16	1	-	-	-
Florida.....	-	2	6	16	-	2	5	10	-	-	2	-
EAST SOUTH CENTRAL.....	1	-	17	37	1	-	13	19	-	-	3	7
Kentucky.....	-	-	8	18	-	-	6	4	-	-	2	-
Tennessee.....	1	-	4	8	1	-	2	4	-	-	-	2
Alabama.....	-	-	3	5	-	-	3	5	-	-	1	-
Mississippi.....	-	-	2	6	-	-	2	6	-	-	-	5
WEST SOUTH CENTRAL.....	13	10	180	72	9	4	142	36	4	6	42	15
Arkansas.....	2	-	4	3	2	-	4	1	-	-	2	1
Louisiana.....	-	7	10	22	-	3	8	15	-	4	-	-
Oklahoma.....	-	-	3	2	-	-	1	-	-	-	-	-
Texas.....	11	3	163	45	7	1	129	20	4	2	40	14
MOUNTAIN.....	-	3	10	35	-	1	8	20	-	2	3	4
Montana.....	-	-	3	3	-	-	2	2	-	-	-	4
Idaho.....	-	2	1	11	-	-	1	5	-	2	-	-
Wyoming.....	-	-	1	-	-	-	1	-	-	-	-	-
Colorado.....	-	1	1	4	-	1	-	4	-	-	2	-
New Mexico.....	-	-	-	3	-	-	-	-	-	-	-	-
Arizona.....	-	-	3	7	-	-	3	5	-	-	-	-
Utah.....	-	-	1	7	-	-	1	4	-	-	1	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	1	5	37	80	1	4	33	64	-	1	42	36
Washington.....	-	1	-	12	-	1	-	12	-	-	-	5
Oregon.....	-	2	5	10	-	1	5	3	-	1	-	-
California.....	1	2	31	56	1	2	27	47	-	-	42	31
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	1	2	-	-	1	2	-	-	-	-
Puerto Rico.....	-	-	8	5	-	-	8	5	-	-	-	-



Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
AUGUST 12, 1961 AND AUGUST 11, 1962 - (Continued)

Area	Brucellosis		Diphtheria		Encephalitis, Infectious		Hepatitis, Infectious and serum				Measles	
	32nd week	Cumulative 32 weeks	32nd week	Cumulative 32 weeks	32nd week		32nd week				32nd week	
							Under 20 yr.	20 & over	Total	Total		
							1962	1962	1962	1961	1962	1961
UNITED STATES.....	7	257	6	240	40	46	378	313	728	1,022	1,660	1,746
NEW ENGLAND.....	-	1	-	1	3	-	36	19	56	33	113	119
Maine.....	-	-	-	-	-	-	11	4	15	-	12	16
New Hampshire.....	-	-	-	-	-	-	11	2	13	9	1	-
Vermont.....	-	-	-	-	-	-	-	2	2	6	1	2
Massachusetts.....	-	-	-	1	-	-	10	5	15	11	55	70
Rhode Island.....	-	-	-	-	3	-	-	-	-	2	12	1
Connecticut.....	-	1	-	-	-	-	4	6	11	5	32	30
MIDDLE ATLANTIC.....	-	6	1	5	12	12	68	69	137	115	231	403
New York.....	-	2	1	3	12	8	35	35	70	52	169	200
New Jersey.....	-	1	-	1	-	-	9	15	24	23	52	114
Pennsylvania.....	-	3	-	1	-	4	24	19	43	40	10	89
EAST NORTH CENTRAL.....	1	62	-	6	4	1	59	60	124	169	354	309
Ohio.....	-	1	-	-	2	-	15	21	37	43	23	39
Indiana.....	-	5	-	3	-	-	1	5	7	10	7	7
Illinois.....	1	46	-	-	2	1	18	16	36	45	48	81
Michigan.....	-	3	-	3	-	-	24	16	40	62	155	102
Wisconsin.....	-	7	-	-	-	-	1	2	4	9	121	80
WEST NORTH CENTRAL.....	2	100	-	55	2	9	17	23	43	62	65	76
Minnesota.....	1	9	-	17	-	-	2	3	5	9	12	2
Iowa.....	-	59	-	1	-	-	2	3	5	19	18	14
Missouri.....	-	3	-	5	2	-	5	7	15	14	8	48
North Dakota.....	-	1	-	7	-	9	3	-	3	1	23	11
South Dakota.....	-	4	-	11	-	-	-	1	1	4	4	-
Nebraska.....	1	11	-	13	-	-	3	6	9	14	-	1
Kansas.....	-	13	-	1	-	-	2	3	5	1	NN	NN
SOUTH ATLANTIC.....	-	20	4	47	2	3	68	38	107	156	124	197
Delaware.....	-	-	-	-	-	-	-	-	-	3	1	1
Maryland.....	-	-	-	-	-	1	8	4	12	11	8	39
District of Columbia..	-	-	-	1	-	-	4	1	5	3	1	1
Virginia.....	-	10	-	9	-	-	6	11	18	20	47	54
West Virginia.....	-	-	-	1	-	-	8	2	10	16	32	36
North Carolina.....	-	2	-	4	1	1	26	8	34	26	1	9
South Carolina.....	-	-	-	5	1	-	10	-	10	9	2	6
Georgia.....	-	2	4	8	-	-	1	3	4	5	-	-
Florida.....	-	6	-	19	-	1	5	9	14	63	32	51
EAST SOUTH CENTRAL.....	1	12	-	16	2	4	54	23	77	134	74	120
Kentucky.....	-	1	-	-	-	-	18	2	20	38	8	30
Tennessee.....	-	4	-	7	1	-	24	14	38	49	59	87
Alabama.....	1	6	-	3	-	-	3	3	6	35	3	1
Mississippi.....	-	1	-	6	1	4	9	4	13	12	4	2
WEST SOUTH CENTRAL.....	1	21	1	91	3	4	41	22	65	102	123	155
Arkansas.....	1	4	-	10	-	-	11	2	13	25	-	1
Louisiana.....	-	4	-	8	-	-	1	2	3	11	-	1
Oklahoma.....	-	2	-	6	-	1	1	-	1	5	-	11
Texas.....	-	11	1	67	3	3	28	18	48	61	123	142
MOUNTAIN.....	1	9	-	9	2	2	5	5	28	42	187	128
Montana.....	-	1	-	6	-	-	1	1	2	3	61	15
Idaho.....	-	1	-	1	-	-	-	-	2	5	15	13
Wyoming.....	-	1	-	-	-	-	-	-	-	4	-	4
Colorado.....	-	2	-	-	-	-	-	-	8	17	36	66
New Mexico.....	-	-	-	2	-	1	2	3	5	4	NN	NN
Arizona.....	-	2	-	-	1	1	-	-	7	-	49	17
Utah.....	1	2	-	-	1	-	2	1	3	9	26	13
Nevada.....	-	-	-	-	-	-	-	-	1	-	-	-
PACIFIC.....	1	26	-	10	10	11	30	54	91	209	389	239
Washington.....	-	-	-	-	-	2	7	9	21	18	28	12
Oregon.....	1	2	-	-	1	-	1	5	6	28	48	86
California.....	-	22	-	5	9	9	21	39	62	149	167	128
Alaska.....	-	1	-	5	-	-	1	1	2	14	34	4
Hawaii.....	-	1	-	-	-	-	-	-	-	-	112	9
Puerto Rico.....	-	-	3	32	-	-	6	1	7	14	63	15

## Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES - UNITED STATES  
FOR WEEKS ENDED

AUGUST 12, 1961 AND AUGUST 11, 1962 - (Continued)

Area	Meningococcal Infections		Streptococcal Sore Throat & Scarlet Fever		Tetanus	Tickborne Typhus (Rocky Mt. Spotted)	Tularemia	Typhoid Fever		Rabies in Animals		
	32nd wk.	Cumulative 32 weeks	32nd week		32nd wk.	32nd wk.	32nd wk.	32nd wk.	Cumulative 32 weeks	32nd week		Cumulative 32 weeks
		1962	1962	1961	1962	1962	1962	1962	1962	1962	1961	1962
UNITED STATES....	34	1,418	3,423	3,193	9	17	7	19	330	60	60	2,597
NEW ENGLAND.....	1	86	101	69	-	-	-	-	5	-	-	-
Maine.....	-	12	4	4	-	-	-	-	1	-	-	-
New Hampshire.....	-	3	2	2	-	-	-	-	2	-	-	-
Vermont.....	-	2	1	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	36	19	15	-	-	-	-	3	-	-	-
Rhode Island.....	1	8	9	-	-	-	-	-	1	-	-	-
Connecticut.....	-	25	66	48	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC....	7	243	83	87	-	-	-	-	34	-	-	84
New York.....	1	107	68	69	-	-	-	-	19	-	-	57
New Jersey.....	4	66	10	9	-	-	-	-	8	-	-	-
Pennsylvania.....	2	70	5	9	-	-	-	-	7	-	-	27
EAST NORTH CENTRAL..	9	288	195	166	-	-	-	5	55	17	8	627
Ohio.....	3	87	10	30	-	-	-	4	31	10	-	317
Indiana.....	-	24	48	26	-	-	-	-	3	3	-	171
Illinois.....	4	66	44	9	-	-	-	1	13	-	4	81
Michigan.....	1	90	52	54	-	-	-	-	5	4	2	29
Wisconsin.....	1	21	41	47	-	-	-	-	3	-	2	29
WEST NORTH CENTRAL..	-	77	82	119	1	-	2	-	10	9	18	663
Minnesota.....	-	15	5	6	-	-	-	-	-	2	2	147
Iowa.....	-	10	28	10	1	-	-	-	1	1	11	267
Missouri.....	-	20	4	36	-	-	2	-	7	1	2	108
North Dakota.....	-	6	44	64	-	-	-	-	-	-	1	45
South Dakota.....	-	4	1	1	-	-	-	-	1	4	1	76
Nebraska.....	-	12	-	-	-	-	-	-	1	-	1	16
Kansas.....	-	10	-	2	-	-	-	-	-	1	-	4
SOUTH ATLANTIC.....	7	230	362	390	2	11	-	3	62	9	7	230
Delaware.....	-	30	-	-	-	-	-	-	1	-	-	-
Maryland.....	1	14	6	17	-	-	-	-	3	-	-	1
Dist. of Columbia..	-	7	-	1	-	-	-	-	5	-	-	-
Virginia.....	5	51	77	79	-	6	-	2	14	-	1	94
West Virginia.....	-	12	77	41	-	-	-	1	4	7	5	87
North Carolina.....	-	54	8	3	-	1	-	-	3	-	-	-
South Carolina.....	-	12	8	28	1	1	-	-	4	-	-	-
Georgia.....	1	9	87	1	-	3	-	-	15	-	1	6
Florida.....	-	41	99	220	1	-	-	-	13	2	-	42
EAST SOUTH CENTRAL..	-	88	849	735	-	6	1	5	30	3	11	283
Kentucky.....	-	19	11	43	-	-	-	-	4	-	3	100
Tennessee.....	-	37	755	670	-	2	-	1	11	2	4	163
Alabama.....	-	18	17	1	-	4	1	3	10	1	4	20
Mississippi.....	-	14	66	21	-	-	-	1	5	-	-	-
WEST SOUTH CENTRAL..	2	116	598	539	2	-	2	3	82	10	11	493
Arkansas.....	1	13	1	-	-	-	2	2	16	1	-	57
Louisiana.....	-	53	1	2	1	-	-	-	19	-	-	17
Oklahoma.....	-	6	-	4	1	-	-	-	4	1	-	22
Texas.....	1	44	596	533	-	-	-	1	43	8	11	397
MOUNTAIN.....	1	46	673	872	1	-	2	1	26	-	1	22
Montana.....	-	3	19	33	-	-	-	-	10	-	-	-
Idaho.....	-	3	99	44	-	-	-	-	-	-	-	-
Wyoming.....	-	4	6	-	-	-	-	-	3	-	-	-
Colorado.....	-	8	235	371	-	-	-	-	3	-	-	1
New Mexico.....	-	3	178	222	-	-	-	1	8	-	-	11
Arizona.....	-	13	99	114	1	-	-	-	2	-	1	10
Utah.....	1	7	37	88	-	-	2	-	-	-	-	-
Nevada.....	-	5	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	7	244	480	216	3	-	-	2	26	12	4	195
Washington.....	-	18	60	49	-	-	-	-	1	-	-	-
Oregon.....	-	15	7	20	-	-	-	-	-	2	-	10
California.....	7	201	387	128	3	-	-	2	25	10	4	185
Alaska.....	-	6	11	19	-	-	-	-	-	-	-	-
Hawaii.....	-	4	15	-	-	-	-	-	-	-	-	-
Puerto Rico.....	-	8	1	4	6	-	-	-	4	-	-	13

Table 4 (D). TOTAL DEATHS AMONG PERSONS 65 YEARS AND OVER IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.<sup>o</sup>)

Area	For weeks ending				Area	For weeks ending			
	7/21	7/28	8/4	8/11		7/21	7/28	8/4	8/11
<b>NEW ENGLAND:</b>					<b>SOUTH ATLANTIC:</b>				
Boston, Mass.....	128	142	114	123	Atlanta, Ga.....	50	54	39	58
Bridgeport, Conn.....	20	29	19	21*	Baltimore, Md.....	96	114	104	108
Cambridge, Mass.....	12	16	22	16	Charlotte, N.C.....	12	16	13	21
Fall River, Mass.....	14	17	17	20	Jacksonville, Fla.....	35	29	22	24
Hartford, Conn.....	18	24	22	24	Miami, Fla.....	38	36	65	51
Lowell, Mass.....	11	15	15	11	Norfolk, Va.....	24	23	30	24
Lynn, Mass.....	17	13	12	14	Richmond, Va.....	39	38	32	38
New Bedford, Mass.....	11	22	11	15	Savannah, Ga.....	13	7	10	15
New Haven, Conn.....	19	24	26	24	St. Petersburg, Fla.....	51	60	62	52
Providence, R.I.....	37	38	31	34	Tampa, Fla.....	33	29	34	38
Somerville, Mass.....	13	5	12	13	Washington, D.C.....	79	82	67	80
Springfield, Mass.....	31	20	13	36	Wilmington, Del.....	14	28	17	13
Waterbury, Conn.....	16	14	12	20					
Worcester, Mass.....	26	35	34	27	<b>EAST SOUTH CENTRAL:</b>				
<b>MIDDLE ATLANTIC:</b>					Birmingham, Ala.....	59	38	39	37
Albany, N.Y.....	15	20	16	24	Chattanooga, Tenn.....	23	19	21	32
Allentown, Pa.....	21	14	15	24	Knoxville, Tenn.....	16	15	13	14
Buffalo, N.Y.....	73	66	104	79	Louisville, Ky.....	73	59	64	47
Camden, N.J.....	20	26	9	19	Memphis, Tenn.....	62	74	41	55
Elizabeth, N.J.....	11	9	16	9	Mobile, Ala.....	33	21	12	18
Erie, Pa.....	16	24	19	26	Montgomery, Ala.....	23	17	29	17
Jersey City, N.J.....	35	33	27	31	Nashville, Tenn.....	29	30	41	27
Newark, N.J.....	59	38	48	34	<b>WEST SOUTH CENTRAL:</b>				
New York City, N.Y.....	791	798	824	770	Austin, Tex.....	17	18	30	27
Paterson, N.J.....	12	21	16	20	Baton Rouge, La.....	20	15	29	16
Philadelphia, Pa.....	329	277	259	254	Corpus Christi, Tex.....	20	9	6	10
Pittsburgh, Pa.....	79	77	118	89	Dallas, Tex.....	74	55	57	52
Reading, Pa.....	14	15	10	15	El Paso, Tex.....	9	16	21	8
Rochester, N.Y.....	80	49	63	44	Fort Worth, Tex.....	28	48	39	28
Schenectady, N.Y.....	17	9	16	19	Houston, Tex.....	75	98	98	69
Scranton, Pa.....	21	23	16	18	Little Rock, Ark.....	30	22	33	26
Syracuse, N.Y.....	40	33	23	36	New Orleans, La.....	124	98	82	86
Trenton, N.J.....	26	19	14	21	Oklahoma City, Okla.....	46	35	27	39
Utica, N.Y.....	16	20	15	19	San Antonio, Tex.....	61	63	61	62
Yonkers, N.Y.....	26	16	15	23	Shreveport, La.....	33	30	30	34
<b>EAST NORTH CENTRAL:</b>					Tulsa, Okla.....	34	34	22	25
Akron, Ohio.....	34	32	19	31	<b>MOUNTAIN:</b>				
Canton, Ohio.....	14	13	22	12	Albuquerque, N. Mex.....	15	13	15	14
Chicago, Ill.....	34	328	338	351	Colorado Springs, Colo...	6	10	17	10
Cincinnati, Ohio.....	99	94	91	97	Denver, Colo.....	88	52	39	67
Cleveland, Ohio.....	98	84	89	108	Ogden, Utah.....	7	9	8	10
Columbus, Ohio.....	68	64	46	65	Phoenix, Ariz.....	47	36	42	31
Dayton, Ohio.....	54	51	41	47	Pueblo, Colo.....	5	6	7	8
Detroit, Mich.....	167	166	151	150	Salt Lake City, Utah.....	19	24	27	31
Evansville, Ind.....	29	27	22	29	Tucson, Ariz.....	19	24	20	19
Flint, Mich.....	14	25	20	22	<b>PACIFIC:</b>				
Fort Wayne, Ind.....	32	23	19	29	Berkeley, Calif.....	11	18	6	9
Gary, Ind.....	10	14	16	11	Fresno, Calif.....	18	12	21	15
Grand Rapids, Mich.....	20	29	23	44	Glendale, Calif.....	25	17	32	25
Indianapolis, Ind.....	71	65	54	69	Honolulu, Hawaii.....	20	18	15	33
Madison, Wis.....	10	25	12	18	Long Beach, Calif.....	36	22	16	23
Milwaukee, Wis.....	73	55	81	64	Los Angeles, Calif.....	224	264	267	267
Peoria, Ill.....	13	11	9	17	Oakland, Calif.....	56	42	35	51
Rockford, Ill.....	11	14	15	16	Pasadena, Calif.....	18	21	32	32
South Bend, Ind.....	25	22	32	32	Portland, Oreg.....	57	67	72	44
Toledo, Ohio.....	46	62	55	67	Sacramento, Calif.....	37	35	25	28
Youngstown, Ohio.....	19	38	27	32	San Diego, Calif.....	39	43	42	47
<b>WEST NORTH CENTRAL:</b>					San Francisco, Calif.....	95	98	99	88
Des Moines, Iowa.....	30	27	32	40	San Jose, Calif.....	21	19	22	22
Duluth, Minn.....	11	7	20	22	Seattle, Wash.....	79	79	79	74
Kansas City, Kans.....	25	6	15	22	Spokane, Wash.....	33	28	29	27
Kansas City, Mo.....	76	63	61	87	Tacoma, Wash.....	26	24	24	24
Lincoln, Nebr.....	17	15	22	16					
Minneapolis, Minn.....	76	57	58	72	San Juan, P.R.....	13	21	11	15
Omaha, Nebr.....	47	42	37	29					
St. Louis, Mo.....	105	138	114	124					
St. Paul, Minn.....	34	50	48	35					
Wichita, Kans.....	24	28	37	25					

<sup>o</sup>Current Week Mortality for 108 Selected Cities\*Estimate - based on average percent of divisional total  
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

4(A) Total Mortality, all ages..... 10,498  
 4(B) Pneumonia-Influenza Deaths, all ages..... 343  
 4(C) Total Deaths under 1 Year of Age..... 761  
 4(D) Total Deaths, Persons 65 years and over..... 5,701



## EPIDEMIOLOGICAL REPORT

## Paralytic Shellfish Poisoning from Oysters — California

The first incident in California of shellfish intoxication following the ingestion of oysters has been reported by the California Department of Public Health.

Four residents of Solano County became ill on August 1 with tingling of the lips, numbness of the extremities, muscular incoordination and difficulty in walking. They had consumed raw oysters purchased the same day from a restaurant on the coast about 50 miles north of San Francisco. The oysters had been harvested from a commercial oyster bed in Drakes Bay, Marin County.

Samples of the oysters were examined by the California State Department of Public Health, Division of Laboratories, on August 3 and were found to contain 9600 mouse units of toxin per 100 grams, or approximately 24 times the maximum safe level of 400 mouse units per 100 grams. (Levels as low as 2400 mouse units per 100 grams have on occasion proved lethal to humans.)

The Health Department prohibited further shipments of oysters from the incriminated bed and all oysters from this bed which had been distributed commercially were recalled. Oysters from nearby Tomales Bay showed toxicity levels of nearly 200 mouse units, somewhat below the symptom-causing quantity. Oysters obtained from other nearby beds showed no toxin.

The toxicity of shellfish on the West Coast usually arises as a result of their consumption of *Gonyaulax cantanella*, a microscopic unicellular plankton organism. These organisms are sometimes present during the summer months in large numbers and may impart a deep rust color to the sea, the so-called "red tide." A quarantine order is issued annually by the California Health Department prohibiting the sale of mussels and warning against eating the dark meat of clams during the period, May 1 to October 31. Ordinarily, shellfish in bays and estuaries, such as oysters, are less affected by the organism than are those on the open shoreline.

Oysters were first incriminated in outbreaks of shellfish poisoning in British Columbia in 1957 where 34 of 61 cases were attributed to oyster consumption.

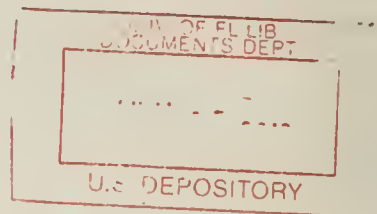
Since first recognition of the problem of paralytic shellfish poisoning in 1793, about 800 cases and 175 deaths have been recorded in various parts of the world. Principally involved have been mussels and soft-shelled clams.\* Most cases have been reported from the West Coast including California, Oregon, Washington, British Columbia and Alaska. Smaller outbreaks have been recorded in Nova Scotia, New Brunswick, Quebec and Maine.

(Reported by Dr. Vernon B. Link, Head, General Epidemiology Section, California Department of Public Health.)

\* Ref.: McFarren, et al. Public Health Significance of Paralytic Shellfish Poison. Adv. in Food Research 10:135-179, 1960.

## INTERNATIONAL NOTES — QUARANTINE MEASURES

No Report.



Notes: These provisional data are based on weekly telegrams to the Communicable Disease Center by the individual State health departments.

Symbols: --- Data not available  
- Quantity zero

Procedures for construction of various mortality curves may be obtained from Statistics Section, Communicable Disease Center, Public Health Service, U. S. Department of Health, Education, and Welfare, Atlanta 22, Georgia.

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